

## SEQUENCE LISTING

<110> Zehentner-Wilkinson, Barbara K.  
 Hayes, Dawn  
 Houghton, Raymond L.

<120> METHODS, COMPOSITIONS AND KITS FOR THE DETECTION  
 AND MONITORING OF LUNG CANCER

<130> 210121.609USPC

<140> US 10/550,797

<141> 2004-03-10

<160> 34

<170> Corixa Invention Disclosure Database

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<212> DNA

<213> Homo sapiens

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<210> 2

<211> 943

<212> PRT

<213> Homo sapiens

<400> 2

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Ile Thr Glu Ala Ser Phe Tyr Leu Phe Asn Ala Thr Lys Arg Arg Val
65          70          75          80
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Asn Asn Ser Lys Ile Lys Gln Glu Ser Tyr Glu Lys Ala Asn Val Ile

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&lt;210&gt; 3

&lt;211&gt; 785

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3

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<210> 4
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<212> PRT
<213> Homo sapiens

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Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys
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Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu
85     90     95
Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu
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Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg
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Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu
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His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr
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Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro
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&lt;210&gt; 6

&lt;211&gt; 200

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6

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35          40          45
Trp Lys Thr Met Ser Gly Lys Glu Lys Ser Lys Phe Asp Glu Met Ala
50          55          60
Lys Ala Asp Lys Val Arg Tyr Asp Arg Glu Met Lys Asp Tyr Gly Pro
65          70          75          80
Ala Lys Gly Gly Lys Lys Lys Lys Asp Pro Asn Ala Pro Lys Arg Pro
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Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys
100         105         110
Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly
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Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr Ile Thr
130         135         140
Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr

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&lt;210&gt; 7

&lt;211&gt; 781

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 7

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&lt;210&gt; 8

&lt;211&gt; 160

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 8

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		20					25					30			
Cys	Cys	Trp	Gly	Tyr	Pro	Ser	Pro	Arg	Ser	Thr	Trp	Asn	Pro	Asp	Arg
		35				40					45				
Arg	Phe	Trp	Thr	Pro	Gln	Thr	Gly	Pro	Gly	Glu	Gly	Arg	His	Glu	Arg
	50					55				60					
His	Thr	Gln	Thr	Gln	Asn	His	Thr	Ala	Ser	Pro	Arg	Ser	Pro	Val	Met
65				70					75					80	
Glu	Ser	Pro	Lys	Lys	Lys	Asn	Gln	Gln	Leu	Lys	Val	Gly	Ile	Leu	His
			85			90							95		
Leu	Gly	Ser	Arg	Gln	Lys	Lys	Ile	Arg	Ile	Gln	Leu	Arg	Ser	Gln	Cys
		100				105						110			
Ala	Thr	Trp	Lys	Val	Ile	Cys	Lys	Ser	Cys	Ile	Ser	Gln	Thr	Pro	Gly
	115					120					125				
Ile	Asn	Leu	Asp	Leu	Gly	Ser	Gly	Val	Lys	Val	Lys	Ile	Ile	Pro	Lys
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<400> 11
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<210> 13
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<213> Homo sapiens

<400> 13
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<210> 14
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<212> DNA
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<400> 14
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<210> 15
<211> 21
<212> DNA
<213> Homo sapiens

<400> 15
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<210> 16  
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 <212> DNA  
 <213> Homo sapiens

<400> 16  
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<210> 17  
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<400> 17  
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<400> 18  
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<400> 20  
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<210> 21  
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 tttcccgtg tcccatatcc ggctgtgggc cctccagctg atcttcgtct ccaccccagc 540

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<210> 22

<211> 261

<212> PRT

<213> Homo sapiens

<400> 22

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Met Asp Trp Gly Thr Leu His Thr Phe Ile Gly Gly Val Asn Lys His
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Ser Thr Ser Ile Gly Lys Val Trp Ile Thr Val Ile Phe Ile Phe Arg
          20          25          30
Val Met Ile Leu Val Val Ala Ala Gln Glu Val Trp Gly Asp Glu Gln
          35          40          45
Glu Asp Phe Val Cys Asn Thr Leu Gln Pro Gly Cys Lys Asn Val Cys
          50          55          60
Tyr Asp His Phe Phe Pro Val Ser His Ile Arg Leu Trp Ala Leu Gln
          65          70          75          80
Leu Ile Phe Val Ser Thr Pro Ala Leu Leu Val Ala Met His Val Ala
          85          90          95
Tyr Tyr Arg His Glu Thr Thr Arg Lys Phe Arg Arg Gly Glu Lys Arg
          100         105         110
Asn Asp Phe Lys Asp Ile Glu Asp Ile Lys Lys His Lys Val Arg Ile
          115         120         125
Glu Gly Ser Leu Trp Trp Thr Tyr Thr Ser Ser Ile Phe Phe Arg Ile
          130         135         140
Ile Phe Glu Ala Ala Phe Met Tyr Val Phe Tyr Phe Leu Tyr Asn Gly
          145         150         155         160
Tyr His Leu Pro Trp Val Leu Lys Cys Gly Ile Asp Pro Cys Pro Asn
          165         170         175
Leu Val Asp Cys Phe Ile Ser Arg Pro Thr Glu Lys Thr Val Phe Thr
          180         185         190
Ile Phe Met Ile Ser Ala Ser Val Ile Cys Met Leu Leu Asn Val Ala
          195         200         205
Glu Leu Cys Tyr Leu Leu Leu Lys Val Cys Phe Arg Arg Ser Lys Arg
          210         215         220

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Ala Gln Thr Gln Lys Asn His Pro Asn His Ala Leu Lys Glu Ser Lys  
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 Thr Gly Phe Pro Ser  
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<210> 23  
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<210> 24  
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<400> 24  
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<210> 25  
 <211> 27  
 <212> DNA  
 <213> Homo sapiens

<400> 25  
 tgtgcaccat tggcttctag gcactcc 27

<210> 26  
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 <212> DNA  
 <213> Homo sapiens

<400> 26  
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 tcagtatcaa gaacaaacca acaattcact caaggaaactc tgtgaatctc ttgaagaaga 360  
 ttacaaagac atagaacatc ttaaagaaaa cgttccttcc catttgctc aagtaacagt 420  
 aaccagagc tgtgttaagg gatcagatct tgatcctgaa gaaccaatca aagttgaaga 480  
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<210> 27

<211> 255

<212> PRT

<213> Homo sapiens

<400> 27

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Ile Gly Asn Ile Lys Lys Thr Leu Ser Leu Arg Asn Cys Gly Gln Glu
      20             25             30
Pro Thr Leu Lys Thr Val Leu Asn Lys Ile Gly Asp Glu Ile Ile Val
      35             40             45
Ile Asn Glu Leu Leu Asn Lys Leu Glu Leu Glu Ile Gln Tyr Gln Glu
      50             55             60
Gln Thr Asn Asn Ser Leu Lys Glu Leu Cys Glu Ser Leu Glu Glu Asp
65             70             75             80
Tyr Lys Asp Ile Glu His Leu Lys Glu Asn Val Pro Ser His Leu Pro
      85             90             95
Gln Val Thr Val Thr Gln Ser Cys Val Lys Gly Ser Asp Leu Asp Pro
      100            105            110
Glu Glu Pro Ile Lys Val Glu Glu Pro Glu Pro Val Lys Lys Pro Pro
      115            120            125
Lys Glu Gln Arg Ser Ile Lys Glu Met Pro Phe Ile Thr Cys Asp Glu
      130            135            140
Phe Asn Gly Val Pro Ser Tyr Met Lys Ser Arg Leu Thr Tyr Asn Gln
145            150            155            160
Ile Asn Asp Val Ile Lys Glu Ile Asn Lys Ala Val Ile Ser Lys Tyr
      165            170            175
Lys Ile Leu His Gln Pro Lys Lys Ser Met Asn Ser Val Thr Arg Asn
      180            185            190
Leu Tyr His Arg Phe Ile Asp Glu Thr Lys Asp Thr Lys Gly Arg
      195            200            205
Tyr Phe Ile Val Glu Ala Asp Ile Lys Glu Phe Thr Thr Leu Lys Ala

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210		215		220
Asp Lys Lys Phe His Val Leu Leu Asn Ile Leu Arg His Cys Arg Arg				
225		230		235
Leu Ser Glu Val Arg Gly Gly Gly Leu Thr Arg Tyr Val Ile Thr				240
	245		250	255

<210> 28  
 <211> 22  
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 <213> Homo sapiens

<400> 28  
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<210> 29  
 <211> 23  
 <212> DNA  
 <213> Homo sapiens

<400> 29  
 gttaagcggg atttcatgta cga 23

<210> 30  
 <211> 28  
 <212> DNA  
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<400> 30  
 agaacctgaa cccgtaaaga agcctccc 28

<210> 31  
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 <212> DNA  
 <213> Homo sapiens

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<210> 32

<211> 579

<212> PRT

<213> Homo sapiens

<400> 32

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Asp Leu Glu Ser Ile Phe Lys Asp Ala Lys Ile Pro Val Ser Gly Pro
 20          25          30
Phe Leu Val Lys Thr Gly Tyr Ala Phe Val Asp Cys Pro Asp Glu Ser
 35          40          45
Trp Ala Leu Lys Ala Ile Glu Ala Leu Ser Gly Lys Ile Glu Leu His
 50          55          60
Gly Lys Pro Ile Glu Val Glu His Ser Val Pro Lys Arg Gln Arg Ile
 65          70          75          80
Arg Lys Leu Gln Ile Arg Asn Ile Pro Pro His Leu Gln Trp Glu Val
 85          90          95
Leu Asp Ser Leu Leu Val Gln Tyr Gly Val Val Glu Ser Cys Glu Gln
100          105          110
Val Asn Thr Asp Ser Glu Thr Ala Val Val Asn Val Thr Tyr Ser Ser
115          120          125
Lys Asp Gln Ala Arg Gln Ala Leu Asp Lys Leu Asn Gly Phe Gln Leu
130          135          140
Glu Asn Phe Thr Leu Lys Val Ala Tyr Ile Pro Asp Glu Thr Ala Ala
145          150          155          160
Gln Gln Asn Pro Leu Gln Gln Pro Arg Gly Arg Arg Gly Leu Gly Gln
165          170          175
Arg Gly Ser Ser Arg Gln Gly Ser Pro Gly Ser Val Ser Lys Gln Lys
180          185          190
Pro Cys Asp Leu Pro Leu Arg Leu Leu Val Pro Thr Gln Phe Val Gly
195          200          205
Ala Ile Ile Gly Lys Glu Gly Ala Thr Ile Arg Asn Ile Thr Lys Gln
210          215          220
Thr Gln Ser Lys Ile Asp Val His Arg Lys Glu Asn Ala Gly Ala Ala
225          230          235          240
Glu Lys Ser Ile Thr Ile Leu Ser Thr Pro Glu Gly Thr Ser Ala Ala
245          250          255
Cys Lys Ser Ile Leu Glu Ile Met His Lys Glu Ala Gln Asp Ile Lys
260          265          270
Phe Thr Glu Glu Ile Pro Leu Lys Ile Leu Ala His Asn Asn Phe Val

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275                      280                      285  
 Gly Arg Leu Ile Gly Lys Glu Gly Arg Asn Leu Lys Lys Ile Glu Gln  
 290                      295                      300  
 Asp Thr Asp Thr Lys Ile Thr Ile Ser Pro Leu Gln Glu Leu Thr Leu  
 305                      310                      315                      320  
 Tyr Asn Pro Glu Arg Thr Ile Thr Val Lys Gly Asn Val Glu Thr Cys  
 325                      330                      335  
 Ala Lys Ala Glu Glu Glu Ile Met Lys Lys Ile Arg Glu Ser Tyr Glu  
 340                      345                      350  
 Asn Asp Ile Ala Ser Met Asn Leu Gln Ala His Leu Ile Pro Gly Leu  
 355                      360                      365  
 Asn Leu Asn Ala Leu Gly Leu Phe Pro Pro Thr Ser Gly Met Pro Pro  
 370                      375                      380  
 Pro Thr Ser Gly Pro Pro Ser Ala Met Thr Pro Pro Tyr Pro Gln Phe  
 385                      390                      395                      400  
 Glu Gln Ser Glu Thr Glu Thr Val His Leu Phe Ile Pro Ala Leu Ser  
 405                      410                      415  
 Val Gly Ala Ile Ile Gly Lys Gln Gly Gln His Ile Lys Gln Leu Ser  
 420                      425                      430  
 Arg Phe Ala Gly Ala Ser Ile Lys Ile Ala Pro Ala Glu Ala Pro Asp  
 435                      440                      445  
 Ala Lys Val Arg Met Val Ile Ile Thr Gly Pro Pro Glu Ala Gln Phe  
 450                      455                      460  
 Lys Ala Gln Gly Arg Ile Tyr Gly Lys Ile Lys Glu Glu Asn Phe Val  
 465                      470                      475                      480  
 Ser Pro Lys Glu Glu Val Lys Leu Glu Ala His Ile Arg Val Pro Ser  
 485                      490                      495  
 Phe Ala Ala Gly Arg Val Ile Gly Lys Gly Gly Lys Thr Val Asn Glu  
 500                      505                      510  
 Leu Gln Asn Leu Ser Ser Ala Glu Val Val Val Pro Arg Asp Gln Thr  
 515                      520                      525  
 Pro Asp Glu Asn Asp Gln Val Val Val Lys Ile Thr Gly His Phe Tyr  
 530                      535                      540  
 Ala Cys Gln Val Ala Gln Arg Lys Ile Gln Glu Ile Leu Thr Gln Val  
 545                      550                      555                      560  
 Lys Gln His Gln Gln Lys Ala Leu Gln Ser Gly Pro Pro Gln Ser  
 565                      570                      575  
 Arg Arg Lys

<210> 33

<211> 21

<212> DNA

<213> Homo sapiens

<400> 33

catggactgg ctttctgggtt g

21

<210> 34

<211> 24

<212> DNA

<213> Homo sapiens

<400> 34

ctgagaaaag ctctggcctt aaac

24